

**$\alpha$ -N-ACETYLGALACTOSAMINIDASE**

**FROM CLOSTRIDIUM PERFRINGENS**

**ABSTRACT OF THE DISCLOSURE**

An isolated and purified  $\alpha$ -N-acetyl-D-galactosaminidase from *Clostridium perfringens* and homologs thereof are disclosed. A method for purifying and isolating the  $\alpha$ -N-acetylgalactosaminidase from *Clostridium perfringens* by removing neuramidases is disclosed. A process for using the  $\alpha$ -N-acetylgalactosaminidase from *Clostridium perfringens* in altering type A blood cells to type O blood cells is disclosed. A process for altering cells expressing blood group A epitope by using  $\alpha$ -N-acetylgalactosaminidase isolated from *Clostridium perfringens* in altering the cells expressing blood group A epitope to cells expressing blood group O epitope is disclosed.